

Utility model

- (11) Rollennummer G 93 08 678.4
- (51) Hauptklasse D04H 1/00
- Nebenklasse(n) D04H 1/40 B32B 5/26
- D06M 17/00
- additional ones
- Information // B32B 27/02, 27/30, 27/32, 37/36, D01F 6/14
- (22) Anmeldetag 10.06.93
- (47) Eintragungstag 12.08.93
- (43) proclamation
- in Patentblatt 23.09.93
- (54) designation of the article
- humidity binding fleece material
- (71) name and domicile of the owner
- Christian Heinrich Sandler GmbH & CO kg, 95126
- black brook A D Saale, DE
- (74) name and domicile of the representative
- Louis, D., Dipl.Chem. Dr. more rer. Nat., 83700
- rot oh gladly: Poehlau, C., Dipl.Phys., 90489
- Nuernberg; Lohrentz, F., Dipl.Ing., 82319
- star mountain; Segeth, W., Dipl.Phys., Pat.Lawyers,
- 90489 Nuernberg

Christian Heinrich Sandler.GmbH & CO kg

Lamitzmuehle, 8676 Schwarzenbach/Saale

Humidity binding fleece material

Those Invention concerns humidity a binding fleece material.

It it is well-known that fleece materials from natural fibers or Natural fiber mixtures as well as fleece materials from hydrophilically equipped organic fibers for the connection of humidity are suitable. the hydrophilic Equipment of organic fibers causes however spezieliz procedures, what itself up the Herateliungskosten of such Viiesmaterialen affects. Viiesmaterialen from natural fibers or Naturtaser mixtures no such need Production steps for hydrophilic equipment, it possess however only one slight resistance against rot, which must be regarded as nachtailig. Particularly equipped fibers and/or. Vliezmaterialien from such particularly in addition equipped fibers exhibit no durable Waesserauznahme.

Therefore the invention the task is the basis, humidity a binding fleece material to create, which does not exhibit the lack mentioned above.

This Task is solved according to invention by the fact that the fleece material Polyvinyl alcohol (test specification a) fibers exhibits. investigations showed, that PVA fibers a good moisture absorption and a good Wasserrueckhaltevermoegen possess.

That fleece material according to invention knows mixture from PVA fibers or out PVA fibers with other organic fibers exist. with this different it can concern organic fibers polyester or polyolefin fibers. On thesis way, D.h. in particular by mixture of PVA fibers with that if other organic fibers meant, it is possible in favourable way, that To adjust Flaechengswicht fleece material according to invention as desired. It lies vorzugzweise between 15 and 150g/m².

With the fibers know fleece material according to invention thermally without bonding agents bound or ennobled its.

That fleece material according to invention can einlagig or with at least one additional layer from other organic fibers such as polyesters or Polyolefin fibers combined its; the mentioned at least an additional Layer can do here an upper and/or a lower layer of the erfirdungsgemaessen fleece material form.

The according to invention in or multi-layer fleece material exhibits the advantages that it humidity well and binds that it a good resistance against rot formation possesses. far RSR advantage of the according to invention in or mehrlegigen fleece material it consists of the fact that not only a relatively brief moisture absorption, separate that a durable moisture absorption is possible. that fleece material according to invention is suitable thus z.B. as covering fleece for example for bituminous boarding and/or. Unterspannbahnen for Unterspannbahnen from Folienverbundmaterialen or spin fleece, for Patient documents, as fiber things for pieces of clothing, for Alkoholtupfer or similar impregnated products as well as over-old, where moisture barriers , D are necessary.h. everywhere, where condensation or humidity of problems prepare can. binding fleece material is given in the roof sheet range. The fleece material is here in particular in the pitched roof range applicable, because with the fleece material the possibly developing condensation bound warden can. in particular with training of the according to invention Fleece material with at least an additional layer it is possible, that Condensation for example of the top side of the multi-layer fleece material on the layer which is under which exhibits PVA fibers or from these exists to transport and bind here.

in that Design are three training humidity according to invention of the binding Fleece material schematically in sections in a sectional view drawn.

the Fig. 1 shows a section humidity of the binding Vliesmateials 10, - in Detial continues to increase - fibers 12 from polyvinyl alcohol (PVA) exhibits or of PVA fibers 12 consists. around a certain desired weight per unit area too obtains, can the Vliesmateiral 10 also out mixture from PVA fibers 12 with other organic fibers exist. with these other organic fibers it acts z. B. over fibers from polyester or from polyolefin.

Fig. 2 clarified schematically training of the fleece material 10, with one additional layer 14 from other organic fibers 16 combined is. the mentioned other organic fibers 16, which in a far increased detail are suggested, negotiates themselves it around fibers appropriately Polyester or polyolefin. the group can heirbei thermally without bonding agents or by needles realized its. the additional layer 14 out hydrophobe points organic fibers such as polyester or polyolefin fibers Characteristics up. the fleece material 10 can also here from PVA fibers 12 however or from a mixture from PVA fibers 12 with anseren organic fibers exist.

Fig. 3 schematically training shows, with which the fleece material 10 not only with a oberschicht 14 but also with a lower layer 18 trained is. the lower layer 18 can be similarly developed and compound up how the oberschicht 14.

Christian Heinrich Sandler GmbH & CO. Kg

Lamitzmuehle, 8676 Black brook Saale

Requirements:

1. humidity binding fleece material
D A D u r C h g e k e n n z e i C h e t,
that the fleece material (0) polyvinyl alcohol (test specification a) fibers (12) exhibits.
2. fleece material according to requirement 1,
D A D u r C h g e k e n n z e i C h n e t,
that it from PVA fibers (12) exists.
3. fleece material according to requirement 1,
D A D u r C h g e k e n n z e i C h n e t,
that it out einam mixture from PVA fibers (12) and other organic fibers (16) exists.
4. fleece material according to requirement 3,
D A D u r C h g e k e n n z e i C h n e t,
that the other organic fibers (16) from Polyester order polyolefin exist.

5. fleece material after one of the preceding requirements,
D A D u r C h g e k e n n z e i C h n e t,
that it a Flachengewicht between 15 and 150 g/m² exhibits.
6. fleece material after one of the requirements 1 to 5.
D A D u r C h g e k e n n z e i C h n e t,
that the fibers (12, 16) are thermally bound.
7. fleece material after one of the requirements 1 to 5,
D A D u r C h g e k e n n z e i C h n e t,
that as is ennobled.
8. fleece material after one of the vorhargehenden requirements,
D A D u r C h g e k e n n z e i C h n e t,
that as with a mindesten additional layer (14,18) from andezen organic Fibers (16), like
polyester or polyolefin fibers (16), combined is.
9. fleece material according to requirement 8,
D A D u r C h g e k e n n z e i C h n e t,
that those at least an additional layer (14, 18) a oberschicht and/or a one Lower layer
forms.

FIG. 1

FIG. 2

FIG. 3

Note: This is a computer translation of the original webpage. It is provided for general information only and should not be regarded as complete nor accurate.